1				I DD	Time stamp
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2 2083 0 0 0 0 0 0 0 0 0	1] 3		USPAT	2004/04/15 17:08
3					0004/04/15 17 00
134441	2				
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134441 raw adj (coal coke fines) 1014 raw adj (coal coke fines) 19959 19970]ysis pyrolysis pyrolyzer combuster 19959 19970]ysis pyrolyzing pyrolyzer combuster 19970] 19970]ysis pyrolyzer combuster 19970] 19970]ysis pyrolyzer combuster 19970] 19970]ysing pyrolyzer combuster 19970] 1997	4	34	(unwashed non-elutriated) with (coal coke	USPAT	2004/04/15 17:13
1			fines)	}	
1014 raw adj (coal coke fines) 199559 19	5	134441	raw	USPAT	2004/04/15 17:13
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Combustion	1.				1
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23533 coke combuster combustion coke		C11		HCDAT	2004/04/15 17:14
9 2353	8	611		USPAI	2004/04/13 17:14
10	_				0004/04/15 17 14
12 366 coke nearZ (outlet discharge) 16 16 ((raw adj (coal coke fines)) and ((raw adj (coal coke fines)) and ((raw adj (coal coke fines)) and ((coke nearZ (outlet discharge)) 13 14 15 15 15 15 15 15 15	4				
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(pyrolysis pyrolyzing pyrolyzer combuster combustion) and (coke near2 (outlet discharge))	11	386	coke near2 (outlet discharge)	USPAT	
Combustion) and (coke near/ (outlet discharge) 13	12	16	((raw adj (coal coke fines)) and	USPAT	2004/04/15 17:27
Combustion) and (coke near/ (outlet discharge) 13			(pyrolysis pyrolyzing pyrolyzer combuster		
discharge)					
13					
14	13	1277		HSPAT	2004/04/15 17:28
with ((unwashed non-elutriated) or raw) with (coal coke fines) roduce producing with (coal coke fines)) and ((produce producing) near3 coke) roducing		1		F	
with (coal coke fines) USPAT 2004/04/15 17: 2004/12/19 16: 2004/	14	53		OSEAL	2004/04/13 17:20
15					
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13	16	1891		USPAT	2004/04/15 17:29
with (coal coke fines)) and ((produce producing) near3 coke) ("4352720").PN. 11676 157565 157565 157565 124662 binder 2002/12/19 16: 2002/1	17	13	((briquette briquettes briquet briquets)	USPAT	2004/04/15 17:29
with (coal coke fines)) and ((produce producing) near3 coke) ("4352720").PN. 11676 157565 157565 157565 124662 binder 2002/12/19 16: 2002/1					
producing) near3 coke				,	
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16176		١ ,		TICDAM	2002/12/10 16.57
157565	_	_			
124662 binder	-			1	1 1
- 489	-	l .			2002/12/19 16:31
Condenser condensing condense condenses and binder	-	124662	binder	USPAT	2002/12/19 15:40
Condenser condensing condense condenses and binder tar		489	(pyrolyzer pyrolysis pyrolyzing) and	USPAT	2002/12/19 15:40
and binder 21874 tar 21392 coke 21392 coke 48 tar and coke and ((pyrolyzer pyrolysis pyrolyzing) and (condenser condensing condense condenses) and binder) (condenser condensing condense condenses) with tar (pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke 17 ("4249909" "4396394" "4401436" USPAT 2002/12/19 16: "440706" "4429500" "4486666" "4495710" "4498905" "451363" "4533438" "4668244" "4775390" "4783200" "4828576" "492576" "493367" "5087269").PN. 206276 condenser condensing condense condenses condensed (condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke (condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke (((condenser condensing condense condenses condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke ((pyrolyzer pyrolyzing) and coke) ((pyrolyzer pyrolysis pyrolyzing) and coke ((pyrolyzer pyrolysis pyrolyzing) and ((condenser condenses) with tar) and (pyrolyzer pyrolyzing) and coke ((pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke) not ((pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke) not ((pyrolyzer pyrolysis pyrolyzing) and ("5041209").PN. 1 ("5041209").PN. 2002/12/19 16: USPAT 2002/12/19 16: USPAT 2002/12/19 17: 2002/12/19 16: 20				i	
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- 21392 coke		21874		HISDAT	2002/12/19 15:40
Tar and coke and ((pyrolyzer pyrolysis pyrolyzing) and (condenser condensing condense condenses) and binder) (condenser condenses) and binder) (condenser condensing condenses) USPAT 2002/12/19 16: with tar 29 (pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke ((avaly9909" "4396394" "4401436" USPAT 2002/12/19 16: "4402706" "4421520" "4448666" "4495710" "4498905" "4501551" "4511363" "4533438" "4668244" "4775390" "4783200" "4828576" "4943367" "5087269").PN. USPAT 2002/12/19 16: condensed (condenser condensing condense condenses condensed (condenser condensing condense condenses condensed (condensed) with tar 2002/12/19 16: condensed) with tar 2002/12/19 16: condensed 2002/12/19 16: condensed) with tar 2002/12/19 16: condensed 2002/12	_		! •		
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Condense condenses and binder	_	48		USPAT	2002/12/19 16:20
Condenser condensing condense condenses USPAT 2002/12/19 16: with tar					
with tar	1				
- 29	-	249	(condenser condensing condense condenses)	USPAT	2002/12/19 16:32
Condenser condensing condense condenses with tar) and coke				'	
Condenser condensing condense condenses with tar) and coke	_	29	(pyrolyzer pyrolysis pyrolyzing) and	USPAT	2002/12/19 16:20
with tar) and coke					
17					
"4492706" "4421520" "4448666"	_	17		HSPAT	2002/12/19 16:27
"4495710" "4498905" "4501551" "451363" "4533438" "4668244" "4775390" "4783200" "4828576" "4943367" "5087269").PN. 3 5322530.URPN. USPAT 2002/12/19 16: condenser condensing condense condenses condensed (condenser condensing condense condenses condensed) with tar ((condenser condensing condense condenses condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke (((condenser condensing condense condenses condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke (((pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke) ((pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke) (USPAT 2002/12/19 16: USPAT 2002/12/19 17: 984842 separate USPAT 2002/12/19 16:		1/		APLAI	2002/12/13 10:2/
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- 3 5322530.URPN 206276 condenser condensing condense condenses condenses condensed - 462 (condenser condensing condense condenses condenses) with tar - 58 ((condenser condensing condense condenses condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke - 29 (((condenser condensing condense condenses condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke - (((condenser condensing condense condenses condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke) ((pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke) - 1 ("5041209").PN 984842 separate - 42246 recycle reprocess - USPAT 2002/12/19 16: - USPAT 2002/12/19 17: - USPAT 2002/12/19 16:					
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- 206276 condenser condensing condense condenses condenses condensed (condenser condensing condense condenses condenses) uspat 2002/12/19 16: 2002/12/19 10: 2002/12/19 10: 2002/12/19 10: 2002/12/19 10: 2002/12/19 10: 2002/12/19 10: 2002/12/19 10:	-	3	5322530.URPN.	USPAT	2002/12/19 16:30
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- 58 ((condenser condensing condense condenses condenses) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke - 29 (((condenser condensing condense condenses condenses) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke) not ((pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke) - 1 ("5041209").PN. USPAT 2002/12/19 17: 984842 separate USPAT 2002/12/19 16:		402		VOLAT	2002/12/19 10.32
condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke (((condenser condensing condense condenses condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke) not ((pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke) ("5041209").PN. 984842 separate 42246 recycle reprocess USPAT 2002/12/19 17: 2002/12/19 16:				HODAM	2002/12/10 16 22
pyrolysis pyrolyzing) and coke (((condenser condensing condense condenses condenses)	-	58		USPAT	2002/12/19 16:32
- 29 (((condenser condensing condense condenses condenses condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke) not ((pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke) - 1 ("5041209").PN. USPAT 2002/12/19 17: 984842 separate USPAT 2002/12/19 16: 2002/12/19 10: 2002/12/19				-	
- 29 (((condenser condensing condense condenses condenses condensed) with tar) and (pyrolyzer pyrolysis pyrolyzing) and coke) not ((pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke) - 1 ("5041209").PN. USPAT 2002/12/19 17: 984842 separate USPAT 2002/12/19 16: 2002/12/19 10: 2002/12/19				1	
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pyrolysis pyrolyzing) and coke) not					
((pyrolyzer pyrolysis pyrolyzing) and ((condenser condensing condense condenses) with tar) and coke) - 1 ("5041209").PN. USPAT 2002/12/19 17: - 984842 separate USPAT 2002/12/19 16: - 42246 recycle reprocess USPAT 2002/12/19 16:					
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with tar) and coke) -					
- 1 ("5041209").PN.					
- 984842 separate USPAT 2002/12/19 16:					
- 42246 recycle reprocess USPAT 2002/12/19 16:	-			USPAT .	2002/12/19 17:00
	-	984842		USPAT	2002/12/19 16:40
	-	42246	recycle reprocess	USPAT	2002/12/19 16:40
1 Just tar with (recycle reprocess) USPAT ZU02/12/19 16:	-	309		USPAT	2002/12/19 16:40

-	67	(pyrolyzer pyrolysis pyrolyzing) and (tar	USPAT	2002/12/19 16:40
		with (recycle reprocess))		0000 /00 /00
-	54	coke and ((pyrolyzer pyrolysis pyrolyzing)	USPAT	2002/12/19 16:40
	1.5	and (tar with (recycle reprocess)))		
-	15	binder and (coke and ((pyrolyzer pyrolysis	USPAT	2002/12/19 16:40
		pyrolyzing) and (tar with (recycle		
		reprocess))))	******	0000 (10 (10 15
-	0	(("4352720").PN.) and (pyrolyzer pyrolysis	USPAT	2002/12/19 16:55
	1	pyrolyzing) ("5322530").PN.	HODE	0000 (10 (10 17 00
-	6	("3322530").PN. ("2595366" "2955988" "3562783"	USPAT	2002/12/19 17:00
_	,	"3700583" "3705092" "3884796").PN.	USPAT	2002/12/19 17:01
1_	10	2955988.URPN.	TICDAM.	2002/12/10 17:00
	4101		USPAT	2002/12/19 17:02
_	16176	1	USPAT USPAT	2002/12/23 12:29
_	109	carbonize carbonizer carbonizing carbonize carbonizer carbonizer carbonizing car	USPAT	2002/12/23 12:29
	109	(pyrolyzer pyrolysis pyrolyzing)	USPAI	2002/12/23 12:29
_	41	(carbonize carbonizer carbonizing) near1	USPAT	2002/12/22 12:21
	1 34	(pyrolyzer pyrolysis pyrolyzing)	USPAI	2002/12/23 12:31
_	1	("2955988").PN.	USPAT	2002/12/23 13:01
_	10	2955988.URPN.	USPAT	2002/12/23 13:01
_	21392		USPAT	2002/12/23 12:33
-	1584034		USPAT	2002/12/23 13:01
_	2389	coke near2 (producer producing produce	USPAT	2002/12/23 13:02
		produced)	OSTAI	2002/12/23 13.02
_	42473	coal	USPAT	2002/12/23 13:02
-	18887	fines	USPAT	2002/12/23 13:02
-	173	coke with coal with fines	USPAT	2002/12/23 13:02
-	43	(coke near2 (producer producing produce	USPAT	2002/12/23 13:02
1		produced)) and (coke with coal with fines)		2002/12/23 13:03
-	13	(pyrolyzer pyrolysis pyrolyzing) and	USPAT	2002/12/23 13:21
		((coke near2 (producer producing produce		2002, 12, 23 13.21
		produced)) and (coke with coal with		
		fines))	•	
-	21874	tar	USPAT	2002/12/23 13:21
-	124662	binder	USPAT	2002/12/23 13:21
-	18	tar with binder with fines	USPAT	2002/12/23 14:10
-		("4352720").PN.	USPAT	2002/12/23 14:26
-	345186	synthetic	USPAT	2002/12/23 14:27
-	261	synthetic adj binder	USPAT	2002/12/23 14:27
-	1	(pyrolyzer pyrolysis pyrolyzing) and	USPAT	2002/12/23 14:27
	-	(synthetic adj binder)		

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